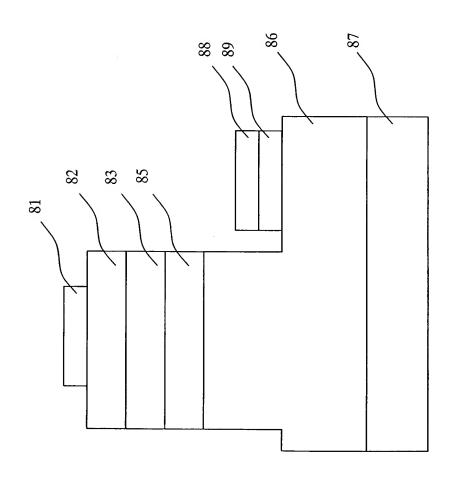
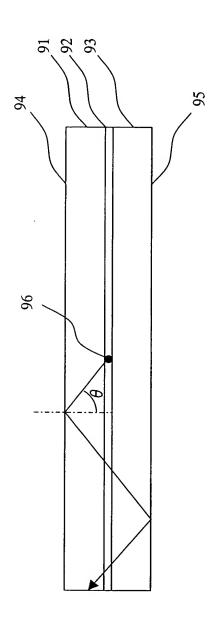
Fig. 1

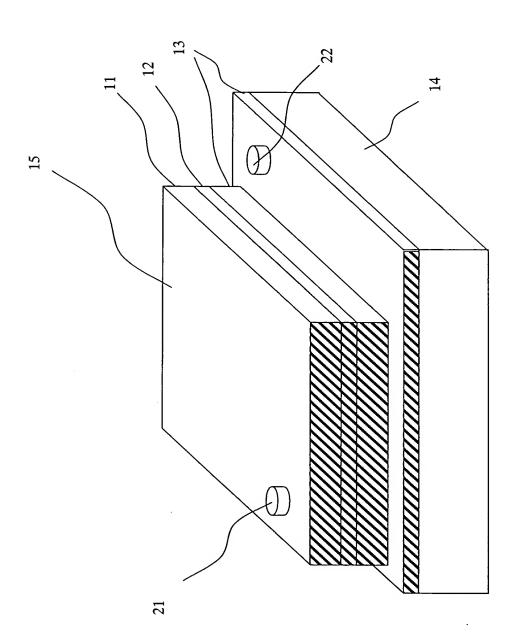
Hogan & Hartson 88519.0012 Hideaki MARUTA Semiconductor Light Emitting Device EV 691 880 158 US 16 Drawing Sheets; Sheet 1 of 16



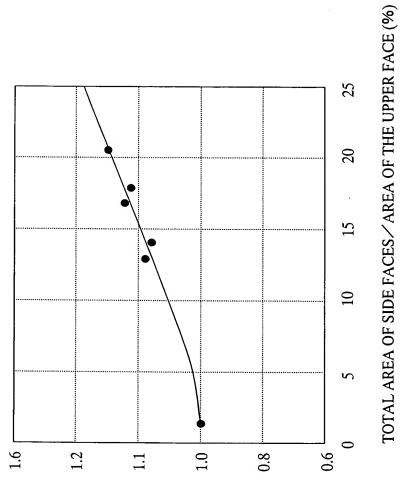
Hogan & Hartson 88519.0012 Hideaki MARUTA Semiconductor Light Emitting Device EV 691 880 158 US 16 Drawing Sheets; Sheet 2 of 16



Hogan & Hartson 88519.0012 Hideaki MARUTA Semiconductor Light Emitting Device EV 691 880 158 US 16 Drawing Sheets; Sheet 3 of 16



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EXTERNAL QUANTUM FEEICENCY (a.u.)

Fig.5

Hogan & Hartson 88519.0012 Hideaki MARUTA Semiconductor Light Emitting Device EV 691 880 158 US 16 Drawing Sheets; Sheet 5 of 16

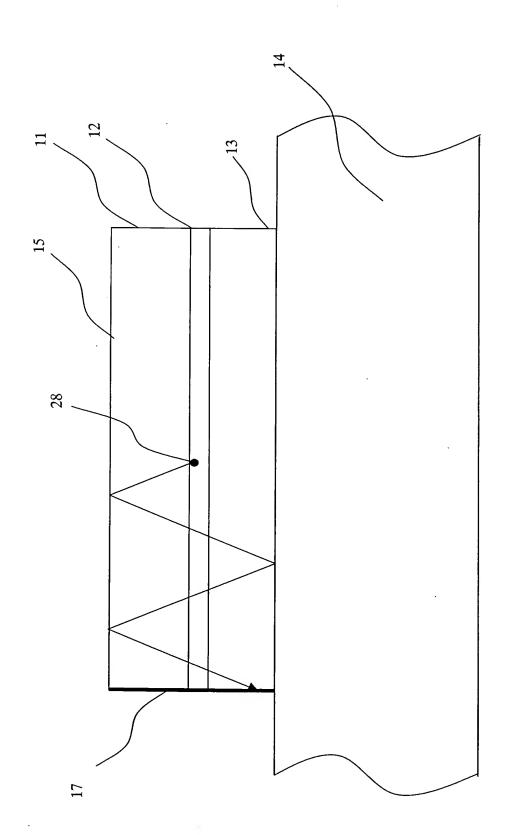
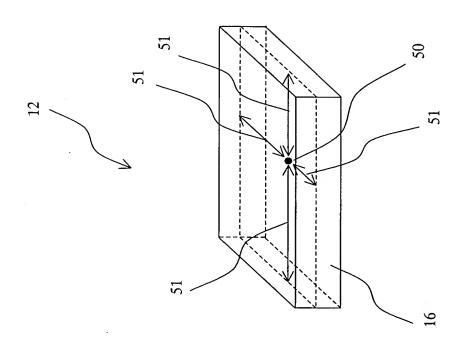


Fig.6

Hogan & Hartson 88519.0012 Hideaki MARUTA Semiconductor Light Emitting Device EV 691 880 158 US 16 Drawing Sheets; Sheet 6 of 16



Hogan & Hartson 88519.0012 Hideaki MARUTA Semiconductor Light Emitting Device EV 691 880 158 US 16 Drawing Sheets; Sheet 7 of 16

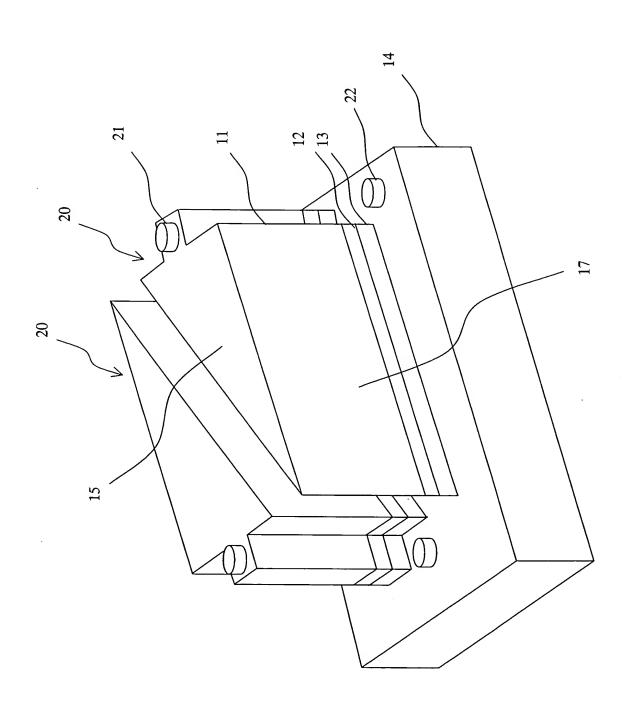
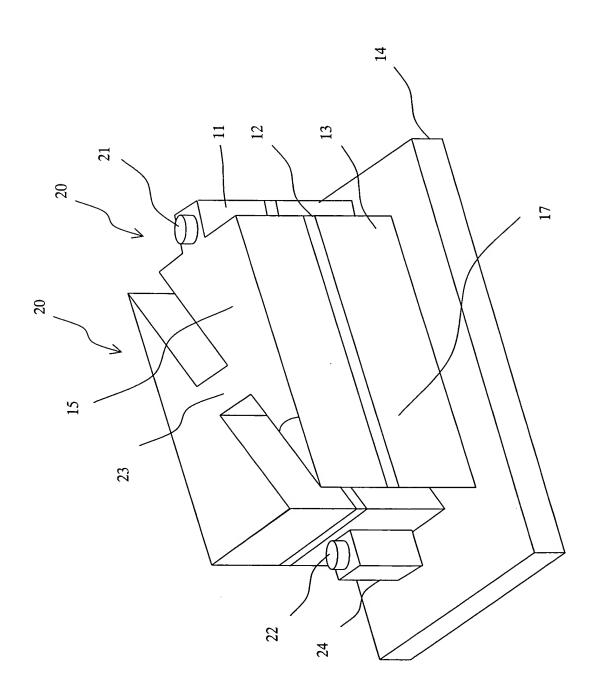


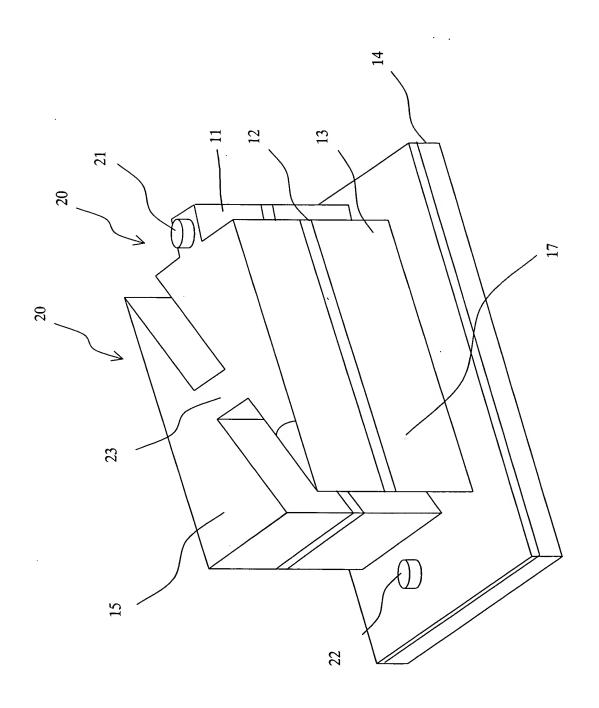
Fig.7

-ig.8

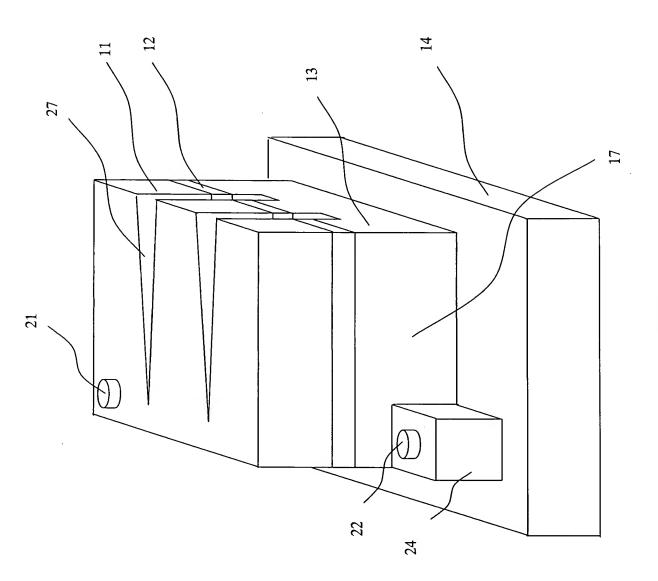
Hogan & Hartson 88519.0012 Hideaki MARUTA Semiconductor Light Emitting Device EV 691 880 158 US 16 Drawing Sheets; Sheet 8 of 16



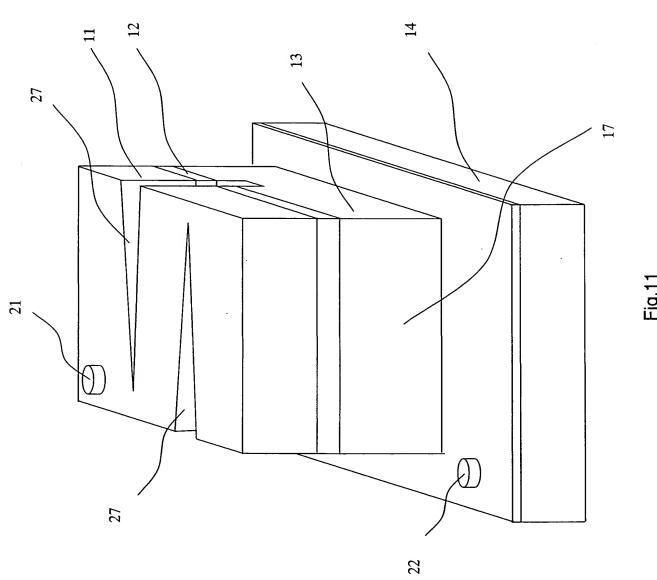
Hogan & Hartson 88519.0012 Hideaki MARUTA Semiconductor Light Emitting Device EV 691 880 158 US 16 Drawing Sheets; Sheet 9 of 16



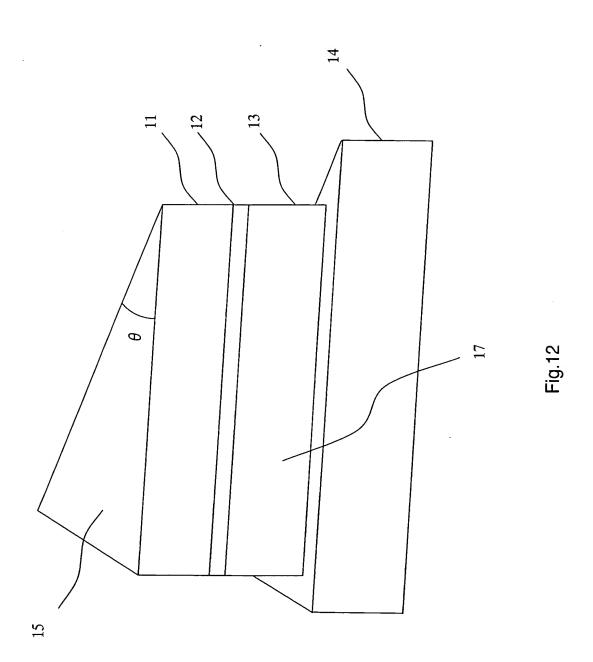
Hogan & Hartson 88519.0012 Hideaki MARUTA Semiconductor Light Emitting Device EV 691 880 158 US 16 Drawing Sheets; Sheet 10 of 16



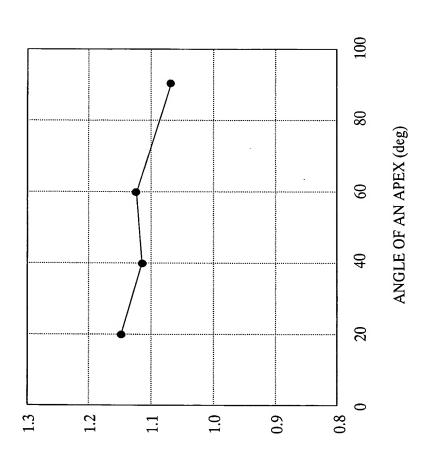
Hogan & Hartson 88519.0012 Hideaki MARUTA Semiconductor Light Emitting Device EV 691 880 158 US 16 Drawing Sheets; Sheet 11 of 16



Hogan & Hartson 88519.0012 Hideaki MARUTA Semiconductor Light Emitting Device EV 691 880 158 US 16 Drawing Sheets; Sheet 12 of 16

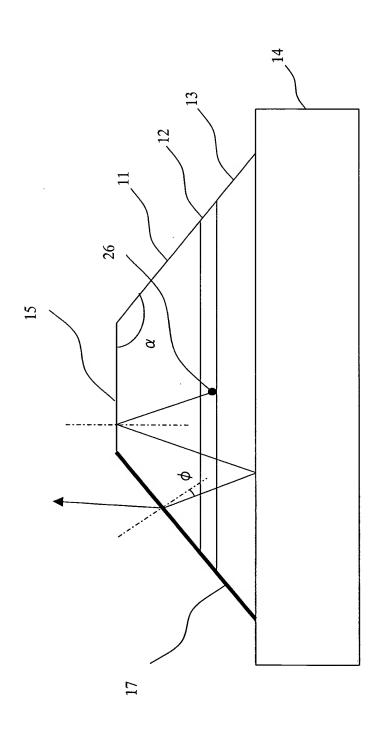


Hogan & Hartson 88519.0012 Hideaki MARUTA Semiconductor Light Emitting Device EV 691 880 158 US 16 Drawing Sheets; Sheet 13 of 16

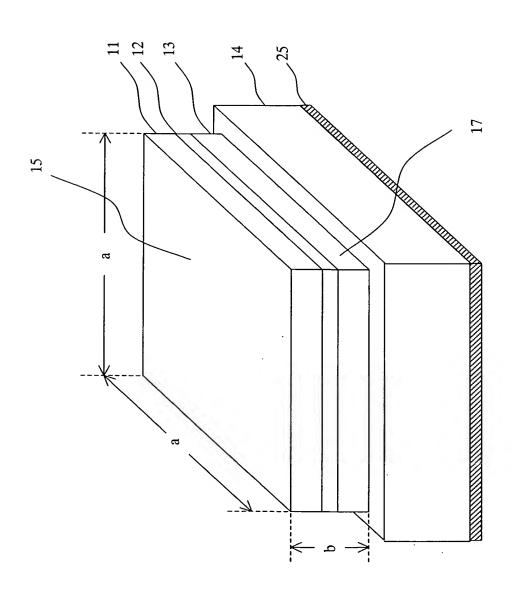


EXTERNAL QUANTUM EFFICIENCY (a.u.)

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